

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	09-03-2026 16:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	09-03-2026 16:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	90 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Steel
विभाग का नाम/Department Name	Steel Authority Of India Limited
संगठन का नाम/Organisation Name	Chandrapur Ferro Alloy Plant
कार्यालय का नाम/Office Name	Chandrapur
वस्तु श्रेणी /Item Category	Facility Management Services - LumpSum Based - Industrial; O&M of Mechanical Work, Mechanical Maintenance of SAF-I, II & III and its equipments and electrode casing rebuilding of SAFs; Consumables to be provided by service provider (inclusive in cont..)
अनुबंध अवधि /Contract Period	2 Year(s) 1 Day(s)
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	55 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	7 Year (s)
टर्नओवर के लिए एमएसई को छूट प्राप्त है / MSE Relaxation for Turnover	Yes Partial Turn over value - 46.75 (in lakhs)
टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है / Startup Relaxation for Turnover	Yes Partial Turn over value - 46.75 (in lakhs)
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	No

बिड विवरण/Bid Details	
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	Yes
रिवर्स नीलामी योग्यता नियम/RA Qualification Rule	H1-Highest Priced Bid Elimination
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	2 Days
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मूल्य दर्शाने वाला वित्तीय दस्तावेज ब्रेकअप आवश्यक है / Financial Document Indicating Price Breakup Required	Yes
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	500000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	3.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	27

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने है। एमएसई कटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this

Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

लाभार्थी /Beneficiary :

SAIL-CFP
Chandrapur, Steel Authority of India Limited, Chandrapur Ferro Alloy Plant, Ministry of Steel
(Sail-cfp)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई अनुपालन/MII Compliance

एमआईआई अनुपालन/MII Compliance	Yes
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एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में हो / Purchase Preference to MSE OEMs available upto price within L1+X%	15

1. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Years of Past Experience required: The bidder must have experience for number of years as indicated above in bid document (ending month of March prior to the bid opening) of providing similar type of services to any Central / State Govt Organization / PSU. Copies of relevant contracts / orders to be uploaded along with bid in support of having provided services during each of the Financial year.
5. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference for services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered service. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price. The buyers are advised to refer to the [OM_No.1_4_2021_PPD_dated_18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if the credentials of the service provider are validated on-line in GeM profile as well as validated and approved by the Buyer after evaluation of submitted documents.

6. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price.

7. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

8. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

अतिरिक्त योग्यता /आवश्यक डेटा/Additional Qualification/Data Required

Details of the premise:[1771157559.pdf](#)

Scope of work:[1771157565.pdf](#)

Facility Management Services - LumpSum Based - Industrial; O&M Of Mechanical Work, Mechanical Maintenance Of SAF-I, II & III And Its Equipments And Electrode Casing Rebuilding Of SAFs; Consumables To Be Provided By Service Provider (inclusive In Cont.. (1)

तकनीकी विशिष्टियाँ /Technical Specifications

विवरण/ Specification	मूल्य/ Values
कोर / Core	
Type of Premises	Industrial
Type of services required	O&M of Mechanical Work , Mechanical Maintenance of SAF-I, II & III and its equipments and electrode casing rebuilding of SAFs
Cost for Consumables/ Materials	Consumables to be provided by service provider (inclusive in contract cost)
Service component	Mechanical Maintenance of SAF-I, II & III and its equipments and electrode casing rebuilding of SAFs
एडऑन /Addon(s)	

क्रेता द्वारा निर्धारित न्यूनतम मूल्य/Minimum Floor Price defined by Buyer

क्रेता द्वारा निर्धारित न्यूनतम मूल्य/Minimum Floor Price defined by Buyer	No
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अतिरिक्त विशिष्टि दस्तावेज़ /Additional Specification Documents

परेषिती/रिपोर्टिंग अधिकारी /Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	Quantity	अतिरिक्त आवश्यकता /Additional Requirement
1	Dhiraj Wasudeorao Jaronde	442401,SAIL-Chandrapur Ferro Alloy Plant, Mul Road, Chandrapur	Project / Lumpsum Based	N/A

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions**1. Generic**

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

2. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1. TERMS:

A. DETAILED SCOPE OF WORK AND OTHER TERMS UPLOADED IN "SCOPE OF WORK". Forms uploaded at "Buyer Added Bid Specific ATC Doc" to be submitted as ATC documents in offer.

B. THE PRICE BID FORMAT IS TO ENABLE THE BIDDERS TO ARRIVE AT THE RATE TO BE QUOTED ON GEM.

C. Tender in Non-Divisible.

2. Bidders can also submit the EMD with Account Payee Demand Draft in favour of SAIL CHANDRAPUR FERRO ALLOY PLANT payable at CHANDRAPUR. Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

3. Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name STEEL AUTHORITY OF INDIA LIMITED, CHANDRAPUR FERRO ALLOY PLANT Account No. 11014646617 IFS C Code SBIN000346 Bank Name STATE BANK OF INDIA Branch address MAIN BRANCH, CHANDRAPUR (MAHARASHTRA). Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of online transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

4. Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of SAIL CHANDRAPUR FERRO ALLOY PLANT payable at CHANDRAPUR. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

5. Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name STEEL AUTHORITY OF INDIA LIMITED, CHANDRAPUR FERRO ALLOY PLANT Account No. 11014646617 IFS C Code SBIN000346 Bank Name STATE BANK OF INDIA Branch address MAIN BRANCH, CHANDRAPUR (MAHARASHTRA). Successful Bidder to indicate Contract number and name of Seller entity in the transaction

details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

6. Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

7. NET WORTH: Net Worth of the OEM should be positive as per the last audited financial statement.

8. PAYMENT OF SALARIES AND WAGES: Service Provider is required to pay Salaries / wages of contracted staff deployed at buyer location first i.e. on their own and then claim payment from Buyer alongwith all statutory documents like, PF, ESIC etc. as well as the bank statement of payment done to staff.

9. SAIL S1 available on www.sailtenders.co.in shall be applicable to this contract.

10. Anti-bribery Undertaking: By participating in this tender, the suppliers / Vendors/Contractors are deemed to have undertaken that they shall not give or take any financial or non-financial bribe, to or from anyone during the tender or during the execution of the contract thereafter and if they notice any such incident happening, they shall report it to SAIL Vigilance.

11. Instructions for bid submission:

- A. Bidders are instructed to submit documents sought in the bid at the time of bid submission. Non submission of requisite documents may lead to rejection of the bid without any issue of clarification. Rejected vendors shall be formally communicated with reasons for rejection and provided two (2) working days to submit representations limited strictly to clarifications and supporting documents related to documents already submitted.
- B. All such submissions shall be evaluated, subject to consideration of only those documents existing prior to the tender due date.
- C. Vendors remaining ineligible shall be informed of continued rejection without any further right of representation. Only techno-commercially acceptable vendors shall be considered for price discovery.
- D. Only relevant documents to the tender are to be submitted the tender including eligibility documents, annexures, etc.

Annexure-I

Mechanical Maintenance of SAF-I, II & III and its equipments and electrode casing rebuilding of SAFs

Scope of Work for Contractor:

A. Mechanical Maintenance of EAF, SAF-I, II & III and its equipments-

1. Mechanical Maintenance of SAF-III and its auxiliary equipments covered under this contract

ract:

- 1.1 Furnace tapping spouts with launders (2 Nos.) including safety tapping screens
- 1.2 2 sets (one at each tap hole) tap hole drilling machine and mudgun along with its hydraulic system, power pack, hoses & accessories, air compressor, air receiver, valves and oil & air pipeline, etc
- 1.3 2 Nos (1W+1S) furnace bottom cooling fans & air cooling duct at bottom
- 1.4 Water cooling pipe/system for furnace shell
- 1.5 Furnace roof cover including its parts e.g. panels, explosion doors, gas off-takes, inspection doors, tie-rods and electrode seal arrangement etc.
- 1.6 3 Nos 1600 mm OD furnace electrode columns: Each electrode column consist of electrode casing, electrode holder (assembly of Pressure Ring Segments, Contact Shoe (clamp) Assembly, Bellows Cartridge, Heat Shield Segment, hangers, insulation, etc), electrode hoisting & slipping system, electrode mantle, hydraulic cylinders, electrode guides, electrode heating centrifugal fans, hydraulic system along with power pack and piping, hoses, etc
- 1.7 10 Nos furnace bins with grills at 27 meter level and total 10 Nos bin pipes (chutes) from furnace bins up to inside of furnace (through furnace roof) for raw material charging
- 1.8 Cooling water system for furnace and auxiliaries including manifold (headers), Valves, troughs, pipelines, flexible hoses, pipe fittings, etc
- 1.9 2 Nos gas stacks with fans from furnace hood to furnace building top
- 1.10 1 No raw gas stack (emergency stack) along with damper
- 1.11 2 Nos (1W+1S) Wet ventury type Gas cleaning plants complete with ducting, centrifugal fans, valves, fittings, pipelines, etc.
- 1.12 Ignition system for flare stacks (clean gas stacks of both GCPs and raw gas stack) including LPG gas cylinder replacement.
- 1.13 Activities e.g. preparation of lancing pipe, replacement of drill bit and drill rod of tap hole drill machine, repairs of skimmer block, welding of rods, etc at furnace tapping bay to facilitate tapping and closing the tap hole
- 1.14 1 No fume extraction (bag filter) system for tapping bay gases along with its ducting from furnace tapping bay to bag house, chimney, etc
- 1.15 60/10 T and 7.5T capacity tapping bay cranes
- 1.16 1 No. 5 T capacity crane at 27 meter level
- 1.17 1 No. 7.5 T capacity grab crane
- 1.18 Cranes and hoists at furnace, GCP, fume extraction system, etc.
- 1.19 Fume extraction (bag filter) system for SAF-III bag house: It includes mechanical maintenance of dust collection hood, ducting, spark arrestor, bag filter, RAV, blower (ID fan) & accessories, chimney, dampers, screw conveyor, pug mill, pumps, pipelines, valve, etc
- 1.20 The contractor will have to maintain proper records and log book related with work, safety & statutory provisions as per requirement. Submission of reports, information to CFP or other agencies time to time as per requirement
- 1.21 The Contractor shall designate an authorized supervisor to oversee the execution of the work, and to maintain accurate records and logbooks pertaining to the work, safety, and compliance with all applicable statutory requirements, in accordance with the specified provisions. The Contractor shall also ensure the daily submission of reports and relevant information to the Contract Operating / Executing Authority, as required.

2. Mechanical Maintenance of SAF I & II equipments and its auxiliary equipments under this contract.

- 2.1 Furnace tapping spouts with launders (4 Nos.) including safety tapping screens (2 Nos.)
- 2.2 2 sets (one at each tap hole) mudgun along with its pneumatic system, hoses & accessories, air compressor, air receiver, valves and oil & air pipeline, etc
- 2.3 Water cooling pipe/system for both furnace shells.
- 2.4 Furnace roof cover including its parts e.g. panels, explosion doors, gas off-takes, inspection doors, tie

e-rods and electrode seal arrangement etc.

- 2.5 3 Nos 1500 mm OD furnace electrode columns: Each electrode column consist of electrode casing, electrode holder (assembly of Pressure Ring Segments, Contact clamp Assembly, cooling Shield Segment, hangers, insulation, etc), electrode hoisting & slipping system, electrode mantle, hydraulic cylinders, electrode guides, electrode heating centrifugal fans, hydraulic system along with power pack and piping, hoses, etc for both furnaces.
- 2.6 12 Nos furnace bins with grills at 22 meter level and total 12 Nos bin pipes (chutes) from furnace bins up to inside of furnace (through furnace roof) for raw material charging for both furnaces.
- 2.7 Cooling water system for furnace and auxiliaries including manifold (headers), Valves, troughs, pipelines, flexible hoses, pipe fittings, etc for both furnaces.
- 2.8 Activities e.g. preparation of lancing pipe, welding of rods, etc at furnace tapping bay to facilitate tapping and closing the tape hole for both furnaces.
- 2.9 7.5 T capacity tapping bay crane (3 Nos.) and dispatch bay.
- 2.10 5.0 T capacity crane at 22 meter level
- 2.11 Fume extraction (bag filter) system for 1 MVA Electric Arc Furnace: It includes mechanical maintenance of dust collection hood, ducting, spark arrestor, bag filter, RAV, blower (ID fan) & accessories, chimney, dampers, screw conveyor, pug mill, pumps, pipelines, valve, etc
- 2.12 Maintenance of 1MVA Furnace inclusive of 3T Crane, tilting mechanism.
- 2.13 Other job in the SAF building that are not mentioned in the contractor's scope but are required to be carried out for execution of the above job contract work/achieving ABP availability of furnaces will have to be carried out by contractor as instructed by Shift In-charges from time to time.
- 2.14 The contractor will have to maintain proper records and log book related with work, safety & statutory provisions as per requirement. Submission of reports, information to CFP or other agencies time to time as per requirement.

Details of maintenance jobs for plant & equipments mentioned at A above:

1. General Mechanical Maintenance jobs:

- 1.1 Daily checks: coupling bolt tightness, gear box oil level, nozzle condition, valves, fan operation (noise, vibration, etc), pump operation (noise, vibration, water leakage, etc), temperature of the cooling water, bearings & motor condition (temperature & vibration, etc), lubrication & hydraulic oil level & oil top up, pressure at various points. The inspection needs to be carried out as per the checklist attached.
- 1.2 Preventive & scheduled maintenance as per requirement and plan (enclosed)
- 1.3 Major breakdown, shutdown and planned maintenance jobs
- 1.4 Condition monitoring & corrective action of standby equipments/system shall be checked and ensured that they are ready for putting in operation. If required trials of the stand by equipments shall also be taken.
- 1.5 Wherever problems are noticed, it shall be informed to the concerned person/authority of contractor /CFP for rectification.
- 1.6 Maintenance of standby equipments/systems shall be carried out promptly and made it ready for use.
- 1.7 Removal, refitting and alignment of motor & other electrical parts to carry out mechanical maintenance jobs
- 1.8 The equipments prone to breakdown/maintenance shall be checked and rectified during breakdown/shutdown for the other jobs or planned maintenance jobs for other equipments.
- 1.9 The contractor shall carryout all the maintenance jobs of the equipments including shift-wise/daily checking, preventive maintenance, oiling & greasing, breakdown and planned shutdown jobs, periodical maintenance including replacement of spares/parts, making ready assemblies/spares/ parts to next maintenance, any modification or replacement or steel structural work required to improve maintenance practice or to improve performance of equipment or process requirement or safety requirement, etc. Maintenance jobs shall be carried out as per Standard Maintenance Practices (SMP), work instructions operation & maintenance manuals and as per instruction of CFP engineer/representative, etc.
- 1.10 For the above jobs detailed procedure is mentioned in ISO 9001-2015 document. The same can be st

udied by the contractor before quoting for this offer. The contractor will have to carry out jobs as per ISO documentation with CFP personnel and documentation of the same.

- 1.11 The requirement of spare parts, consumables, etc shall be informed to CFP for its procurement and maintaining availability in advance.
- 1.12 The contractor will have to maintain proper records and log book related with work, safety & statutory provisions as per requirement. Submission of reports, information to CFP or other agencies time to time as per requirement.
- 1.13 Any maintenance job, fabrication or erection work which might have not been mentioned in the scope of work/ specification/ work order or drawing but are usual or necessary for the completeness of work, shall be carried out by the contractor without any extra charges and work must be completed in all respect.

2. Specific Maintenance jobs: Specific maintenance jobs for some of the major equipments/systems are described below:

2.1 45 MVA SAF: It includes various parts of furnace and auxiliary equipments of SAF-III as mentioned at 'A' above. Some of the jobs are as mentioned below:

- a. Checking and attending leakages/replacement of cooling water & hydraulic hoses, its pipeline, valves & pipe fittings.
- b. Slipping device liner pad replacement
- c. Hydraulic cylinder replacement and its seal replacement
- d. Furnace bins and bin pipes repairs/patch welding, alignment, insulation replacement, etc
- e. Attending breakdown and planned maintenance including repair or replacement of various parts of electrode slipping & hoisting system, electrode holder equipments (contact clamp/pad, pressure below, pressure rings segments, heat shield, electrode seal, seal ropes, etc) hydraulic power packs, mudgun and tap hole drill machine, furnace roof, shell cooling water system and shell bottom cooling fans & its ducting, etc)

2.2 Gas Cleaning Plants of 45MVA SAF:

Daily checking of fan condition including vibrations, water flow in the system, pressure at various stages, various valves, etc. changeover of running GCP to standby GCP and its stabilisation.

Maintenance of stand by GCP shall include opening required flanges, manholes, etc and refitting the flanges after cleaning to the satisfaction of CFP. Maintenance of GCP blowers shall be carried out by dismantling various parts e.g. impeller, bearing, couplings, pulley, fan casing, etc. Cleaning of fans, impeller and other parts, checking of bearing condition and replacement of the damaged parts of fans. Assembly of fans including in-situ balancing. Cleaning of pipelines, etc. After cleaning, maintenance and complete assembly of GCP trials of individual equipments and complete GCP with and without and with water circulation shall be taken for its satisfactory working/performance and GCP shall be kept ready for change over as per need.

Maintenance of running GCP shall be carried out during breakdowns for rectification of problems and preventive maintenance, etc.

2.3 EOT Cranes & Hoists: Checking the condition of couplings, gear boxes including oil level, wheels, bolt tightness, brake shoes, thrusters, wire rope condition, hooks, grab bucket, wire rope greasing, etc and rectification of defects including replacement of parts.

2.4 Fume Extraction Systems (Bag Filter) for 1 MVA EAF:

Mechanical maintenance of all equipments of fume extraction systems including dust collection hood, ducting, spark arrestor, bag filter, RAV, blower (ID fan) & accessories, chimney, dampers, screw conveyor, pug mill, pipelines, valve, etc. It also includes replacement of bags, maintenance of fan & its in-situ balancing, cleaning of ducts, etc.

3. Requirement for Mechanical Maintenance:

3.1 Mechanical Maintenance of SAF-I, II & III and its auxiliaries equipments :

The maintenance of SAF-I, II & III and its auxiliaries equipments are to be carried out in all the three s

hifts as production process is continuous. The stoppages for preventive and breakdown maintenance have to be minimum. Since the availability of all the furnace and equipments are to be ensured, the contractor shall provide the resources such as employees, tools and tackles, supervision on the job in all the three shifts. Contractor's employees shall be sufficiently equipped with skills such as welding, cutting, fitting and rigging jobs as required and approved by executing agency or its representative. The contractor shall provide resources tool tackles round the clock in A, B, C shifts for carrying out shift maintenance jobs, the preventive maintenance, periodical overhauling, spare assembly preparation s, major breakdowns are to be attended in General shift for which contractor shall provide resources such as welding/cutting/fitting/rigging/supervision and helpers as decided by CFP with tools and tackles in General shift and these resources shall be available on every day of contractual period. The execution of jobs in parallel is required to be carried out in case of exigency of furnace breakdown/shutdown work to reduce time and increase the availability of furnaces for production. It is observed that such activities are to be carried out spontaneously and with quick decision on spot. Contractor shall have to increase the resources in all the shifts to reduce downtime of furnaces and also one or more jobs can be carried out continuously so that all the jobs get completed without any delay

There shall be Contractor's representative for safety clearances (Supervisor) at the site to work on behalf of contractor. The Supervisor shall have adequate training, skill and experience of the similar jobs to this contract jobs.

The Contractor shall designate an authorized supervisor to oversee the execution of the work, and to maintain accurate records and logbooks pertaining to the work, safety, and compliance with all applicable statutory requirements, in accordance with the specified provisions. The Contractor shall also ensure the daily submission of reports and relevant information to the Executing Authority, as required. The contractor shall arrange, at his own cost, all required stationery—including shift logbook registers, PPE distribution register and preventive maintenance registers—for maintaining and updating records as stipulated in the contract.

3.2 Fabrication of electrode casing & electrode building:

Fabrication of electrode casing and electrode building up is to be carried out regularly round the clock. The job is to be executed by the contractor engaging the skills required for completion of the job and shall not be mixed with other activities.

3.3 The jobs shall be completed within given/shortest time so that downtime of SAF/equipments can be reduced. The contractor shall carry out the job / provide resources round the clock (in all shifts) including on Sunday & holidays.

Note- The contractor shall be resourceful for carrying out the job work order and shall be able to mobilize the resources for the entire duration of the contract round the clock. The Contractor shall supply and maintain, at their own cost, all tools, tackles, equipment, and materials required for the execution of the work. This includes, but is not limited to, the following:

3.3.1 Chain Pulley Blocks: The Contractor shall provide Chain Pulley Blocks of varying capacities (5 Ton, 3 Ton, 2 Ton, 1 Ton, and 0.5 Ton). The number and capacity of the chain pulley blocks required will be determined by the nature of the job. For example, if 20 chain pulley blocks are needed to perform different tasks simultaneously, the Contractor shall arrange them at their own cost.

3.3.2 Welding Equipment: 3.15mm & 4mm MS welding Electrodes, Welding machines including switch-fuse units and ELCBs, power supply cables, welding cables, and associated accessories.

3.3.3 Gas Cutting Equipment: The Contractor shall provide a Gas Cutting Set, which must include hose pipes (Approx. length- 25m), cutogen, nozzles, flashback arrestors (for both cylinders and cutting torch), and double-stage regulators (for both cylinders). The Contractor shall maintain minimum three (3) cutting sets and 9 welding machines at all times for execution of above mentioned jobs. These cutting sets and welding machines may be relocated within different areas of the FAD building as needed to meet job requirements; however, the Contractor must ensure that the minimum requirements are always maintained.

3.3.4 PPEs, handtools and other consumables: The Contractor shall provide good quality PPEs, hand tools & tackles and all other material, accessories and consumables to each of his workmen engaged at CFP under this contract, including but not limited to the following, without fail:

3.3.4.1 PPEs (Personal Protective Equipment):

The contractor shall ensure that the following personal protective equipment (PPE) is provided to

all his workers. Non-compliance shall attract penalties as per prevailing safety norms.

Name / Description of PPE	Qty (for each workman)
Safety Hat	: 1 no. per year
Safety shoes (steel toe)	: 2 pairs per year
Heat resistant hand gloves	: 2 pairs per month
Work gloves (cotton/polyester with inner lining)	: 2 pairs per month
Dust Mask	: 1 no. per week
Face shields with screen (for welder / cutter)	: 1 no. per year
Full-body harness	: 4 Nos (common for all)
High visibility jackets	: 2 nos per year
Safety Goggle	: 4 nos per year
Ear Plug	: 6 nos per year
Raincoat	: 1 no. in every 2 years
Umbrella	: 1 no. in every 2 years
Flame retardant clothing	: 1 pair of shirt / jacket and trousers every year

3.3.4.2 Hand Tools, accessories and other miscellaneous tools and tackles:-

The contractor shall supply and maintain all required hand tools, accessories, and miscellaneous tools and tackles necessary for execution and maintenance works. This shall include, but not be limited to, fixed/ring/box/T-spanners, pipe wrenches of various sizes, Allen key sets, screwdrivers, hammers, punches, pliers, hacksaw frames with blades, portable grinders and cutters with grinding and cutting wheels, tap sets and wrenches, rechargeable torch, sling ropes, manila ropes, and rigging ropes. Consumables and bonding/sealing materials such as M-Seal, steel putty, Araldite, Anabond, and similar items shall be made available in sufficient quantities by the contractor at his own cost.

The contractor shall maintain adequate stock of the following O-rings:

60mm (ID) x 70mm (OD) x 5mm (Dia)-1000 Nos

58mm (OD) x 46mm (ID) x 6mm (Dia)-400 Nos

Any other material/machine that is required for maintenance jobs as mentioned in contract but not included here will be arranged by the contractor at his own cost.

B. Fabrication of electrode casing & electrode building for SAF-I, II & III

1. Fabrication of electrode casing & electrode building for SAF-III:

Fabrication of electrode casing & electrode building shall be done as per requirement of furnace i.e. consumption of electrode. In case single casing is required to be welded on furnace electrode, then two single casings welded on furnace electrode will be considered as one double casing. Drawing No SAF-III/M-01/1002 shall be referred for electrode casing.

The contractor's scope of work for each unit will be as under:

1.1 Fabrication of casings:

The electrode casings shall be fabricated as per Drawing No SAF-III/M-01/1002 within CFP plant premises. The contractor shall carry out the job as under:

- a. Machines required for making electrode casing e.g. welding machine, plate rolling machine, gas cutting set accessories, grinder and other tools and tackles, consumable e.g. welding electrode, gases, manpower, etc will be arranged by the contractor at his cost. The contractor shall make fixture set (bottom and top) for assembly of electrode outer shell and ribs. The contractor shall use available fixture set (bottom and top) for assembly of electrode outer shell and ribs, stand/fixture welding of casing parts. If required contractor may fabricate the fixtures suitable for his working at his cost. Steel material required for fabrication of these fixtures will be provided by CFP. The contractor shall hand over these fixtures to CFP in good condition after completion of contract.
- b. Following materials shall be used for casing fabrication:
 - MS hot rolled (HR) sheet of 2.9 to 3.15 mm thick as per IS 10748/2009
 - MS casing sheets 5 mm thick or 5x65 mm flat
 - MS flat: 50 X 10 mm
- c. Shifting of materials from store and fabrication site to top floor of SAF-III building.
- d. Fabrication of ribs (14 Nos for each casing):

- Shearing of casing sheet and flat for ribs
 - Corner cutting & of cut sizes for ribs
 - Circular window punching of ribs
 - Assembly of ribs by welding (Staggered welding of 14 nos. ribs with MS flat on each rib edge for reinforcement as per drawing)
- e. Casing fabrication & Assembly:
- Cutting of casing sheets to make two halves of casing
 - Rolling of two halves to give semicircular shape. Welding of casing sheets to make height of single casing as per drawing.
 - Assembly of two halves of casing and 14 ribs on the fixture and fit the clamp of fixture and tack welding
 - Grinding of the outer welded joints and rectification of welding defects, if noticed.
 - Inspection of the electrode casing by representative of contractor and CFP and putting identification mark accepted on the casing.
 - Height of single casing: 1210 to 1250 mm (to be made from 1250 mm wide SAIL make HR sheets).

1.2 Making of double casing

1 No double casing shall be made by welding 2 Nos of single casing to each other with 160 mm wide plate as per drawing. It includes placing of two casings on each other, proper matching of casing, welding of ribs of both casings to each other, welding of 60 mm and 160 mm wide circular plates at joints, grinding of the outer welded joints and rectification of welding defects, if noticed.

1.3 Electrode casing welding (re-building) on furnace electrode

- Double electrode casing shall be welded on furnace electrode at top floor of furnace building as per instruction of CFP engineer depending up on the electrode consumption.
- Welding of double casing on furnace electrode includes placing of double casings on furnace electrode, proper matching of casing, welding of ribs of both casings to each other, welding of 60 mm and 160 mm circular plates at joints, fixing socket and pipe as per drawing, fixing of hardware, grinding of the outer welded joints and rectification of welding defects, if noticed.

2. Fabrication of electrode casing & electrode building for SAF-I & II:

Fabrication of electrode casing & electrode building shall be done as per requirement of furnace i.e. consumption of electrode. In case single casing is required to be welded on furnace electrode, then two single casings welded on furnace electrode will be considered as one double casing. Drawing No FM-04-1027 shall be referred for electrode casing.

The contractor's scope of work for each unit will be as under:

2.1 Fabrication of casings:

The electrode casings shall be fabricated as per Drawing No FM-04-1027 within CFP plant premises. The contractor shall carry out the job as under:

- a. Machines required for making electrode casing e.g. welding machine, plate rolling machine, gas cutting set accessories, grinder and other tools and tackles, consumable e.g. welding electrode, gases, manpower, etc will be arranged by the contractor at his cost. The contractor shall use available fixture set (bottom and top) for assembly of electrode outer shell and ribs, stand/fixture welding of casing

ng parts. If required contractor may fabricate the fixtures suitable for his working at his cost. Steel material required for fabrication of these fixtures will be provided by CFP. The contractor shall hand over these fixtures to CFP in good condition after completion of contract.

b. Following materials shall be used for casing fabrication:

- MS hot rolled (HR) sheet of 2.3 mm thick as per IS 10748/2009
- 5x65 mm flat

c. Shifting of materials from store and fabrication site to top floor of SAF-I & II building.

d. Fabrication of ribs (14 Nos for each casing):

- Shearing of casing sheet and flat for ribs
- Corner cutting & bending of cut sizes for ribs
- Circular window punching of ribs
- Assembly of ribs by welding (Staggered welding of 14 nos. ribs with MS flat on each rib edge for reinforcement as per drawing)

e. Casing fabrication & Assembly:

- Cutting of casing sheets to make two halves of casing
- Rolling of two halves to give semicircular shape. Welding of casing sheets to make height of single casing as per drawing.
- Assembly of two halves of casing and 14 ribs on the fixture and fit the clamp of fixture and tack welding
- Grinding of the outer welded joints and rectification of welding defects, if noticed.
- Inspection of the electrode casing by representative of contractor and CFP and putting identification mark accepted on the casing.
- Height of single casing: 1210 to 1250 mm (to be made from 1250 mm wide SAIL make HR sheets).

2.2 Making of double casing

1 No double casing of shall be made by welding 2 Nos of single casing to each other with 75 mm wide plate as per drawing. It include placing of two casings on each other, proper matching of casing, welding of ribs of both casings to each other, grinding of the outer welded joints and rectification of welding defects, if noticed.

2.3 Electrode casing welding (re-building) on furnace electrode

- Double electrode casing shall be welded on furnace electrode at top floor of furnace building as per instruction of CFP engineer depending up on the electrode consumption.
- Welding of double casing on furnace electrode include placing of double casings on furnace electrode, proper matching of casing, welding of ribs of both casings to each other, 75 mm circular plates at joints, grinding of the outer welded joints and rectification of welding defects, if noticed.

2.4 Other requirements:

- 2.4.1 **Inspection:** Inspection of the electrode casing by representative of contractor and CFP. Inspection Criteria is as under:
- a. Dimensional checking as per drawing
 - b. Welding and grinding quality of casings and rebuilding job.
- 2.4.2 The contractor shall fabricate and make single / double casings in decided quantity monthly based on the estimated consumption and maintain the stock at furnace building. Stock of approx 6 Nos double casing shall be maintained at furnace building. The quantity mentioned in the scope of work/ price schedule is tentative quantity. It may increase or decrease as per requirement of the work to be carried out.
- 2.4.3 Proper records shall be maintained for fabrication of casings and welding of casing on furnace electrode with CFP representative.
- 2.4.4 The contractor shall shift the materials required for the job from stores to fabrication site and from fabrication site to top floor of furnace buildings. Contractor shall arrange tractor/dumper or mobile crane at his cost for material shifting. CFP will provide EOT crane available at top floor of furnace building only for lifting of casings & interconnecting materials, placing casing at appropriate place, casing doubling, casing rebuilding, and etc jobs.
- 2.4.5 The Contractor shall designate an authorized supervisor to oversee the execution of the work, and to maintain accurate records and logbooks pertaining to the work, safety, and compliance with all applicable statutory requirements, in accordance with the specified provisions. The Contractor shall also ensure the daily submission of reports and relevant information to the Executing Authority, as required.

Scope of Supply by SAIL

- a. The materials for preparation of spares parts, insulation, structural steel & plates, oil & lubricants, paints will be supplied by CFP to the contractor free of cost.
- b. CFP will provide electrode casing sheets/plates, MS flats, pipe, socket, hardware for fabrication of casing in required quantity, steel for making fixtures and nut bolts, etc. The contractor shall utilize the same properly without any wastage.
- c. CFP will provide power supply, water, space for fabrication of casings and installation of machines required for this job free of cost.

- d. CFP will provide shearing machine, punching machine (press) and sheet bending machine (for 90 degree folding of ribs) available at workshop free of cost.
- e. EOT crane available at SAF buildings & workshop will be made available to the contractor for these jobs free of cost.

Annexure -II

Special Terms and Conditions:

1. In every shift (G, A, B & C) the party has to take care of all the breakdowns and shutdowns of SAF-I, II & III and its equipments. In case of more than one breakdown/shutdown occurs at a time, contractor will have to execute all the jobs simultaneously and accordingly handle the breakdowns simultaneously. The contractor will also have to carry out:-
 - a. Jobs at various equipments at various locations simultaneously for readiness of standby equipments.

- b. Preparation of spares for Mechanical equipments mentioned in contract and restoration of breakdowns & shutdowns e.g. Maintenance jobs at GCPs of SAFs, RM Charging system of SAFs, Shift Maintenance at SAFs, Major Breakdown & Planned Shutdown of SAFs will be carried out simultaneously (This is just one example of jobs to be carried out in parallel, there will be various such jobs which will be executed in parallel and the contractor will have to carry out all the jobs simultaneously in all the shifts).
 - c. The contractor will have to carry out preparatory jobs in advance before any major maintenance work in any shift.
 - d. In addition to this, routine maintenance activities for preparation of tapping bay of all furnaces will be carried out by the contractor every day in all the shifts simultaneously.
2. Contractor has to prepare and religiously maintain various spares as per requirement and as instructed by Executing & Operating authority by analyzing the involved jobs carefully so as to avoid any possible breakdown as well as to attend the unexpected breakdowns.
 3. **Period of Contract/ Validity of Contract**- Two year from the date of Work order/ clearance of Contract Operating Authority.
 4. **Inspection clause/Inspecting Authority/Executing & Operating authority**: - The job will be executed as per the instruction of inspecting and executing agency Sr. Manager (Mech. Maint.). The Overall operating agency will be GM (Mech. Maint.)
 5. **Penalty** will be imposed subject to non-fulfillment of jobs and not attending breakdowns/shutdowns/delays leading to downtime in the plant.

a) For Line Item No.-1 (Mechanical Maintenance of EAF, SAF-I,II, III and its equipments)-

- Any shortfall in the deployment of manpower against the minimum required strength shall attract penalty, calculated as follows:

$$\text{Penalty (Rs.)} = (\text{Required Manpower} - \text{Deployed Manpower}) \times \text{Applicable Skill-Level Wage Rate} \times 0.25$$
- In the event of failure on the part of the Contractor to provide or maintain the required materials and consumables in adequate quantities for uninterrupted maintenance and performance of the services as per the Purchase Order, penalty of Rs. 5,000/- per resource per occurrence shall be imposed.
- If the contractor does not complete any mechanical maintenance job specified in contract, penalty of Rs 8000/- per job per instance will be levied.
- Checklists and schedule for regular inspection and preventive maintenance of the mechanical equipments will be given to the contractor and the contractor will have to ensure to provide compliance of checklist on daily basis without fail. If the contractor does not comply with checklist as specified in the contract, penalty of Rs. 5000/- per non compliance per equipment will be imposed.

b) For line item No.-2 (Fabrication of electrode casing & electrode building)-

- If the contractor does not fabricate electrode casings and rebuild electrodes of SAFs, penalty of Rs 15,000/- per double casing will be levied.
 - In the event that any opening or defect is observed in the electrode casing after casing build-up, at any location between Casing floor (22m) and furnace roof (9m), the contractor shall carry out all rectification work at no additional cost. In addition, penalty of Rs 15,000/- shall be levied for each such occurrence.
6. **Payment Terms & Contract Closure**-The contractor shall raise monthly RA bills. Ten percent (10%) of the final month's bill shall be retained as retention money. Retention amount shall be released after closure of contract. The contractor shall submit all requisite documents towards closure of contract in a timely manner, to enable closure of contract. In case of delay in submission of above mentioned documents, CFP shall not be responsible for delay in payment of Retention amount, Security Deposit etc.
 7. **Supervisor's Role**- There shall be Contractor's representative for safety clearances (Supervisor) at the site for each group to work on behalf of contractor. The Supervisor shall have adequate skill and experience of execution of Mechanical work. All the jobs will be supervised by the person deputed as supervi

sor by the contractor in each shift i.e. G, A, B & C. If the contractor fails to assign supervisor to any shift, a penalty will be imposed as per penalty clause. The supervisor will have to maintain proper records of jobs executed as per checklist provided by Shift In-charge in each shift. These records must be submitted to the Executing Authority. Failure to comply with the checklist will result in penalty, as specified in the penalty clause. Additionally, the Contractor shall be responsible for providing and maintaining all necessary records, like logbook for each shift, monthly maintenance plan and annual maintenance plan etc.

8. In case contractor does not carry out the jobs as mentioned in contract or contractor refuses to execute any job, the job will be carried out through any other contractor at the risk and cost of the defaulting contractor.
9. Weekly review meeting will be conducted with Contractor apart from monthly maintenance plan. Planning for upcoming weeks will be discussed for preparation & availability of spares, maintenance plans etc. Minutes of each meeting will be recorded & maintained by contractor. In case of major breakdowns because of unforeseen reasons/equipment damage due to malfunctioning etc, the contractor shall be intimated immediately on telephone/email for corrective action & resource mobilization for which contractor shall be obliged to execute job for reduction of downtime. Regular shift jobs will be intimated to the supervisor from time to time.
10. The contractor shall be resourceful for carrying out the job work order and shall be able to mobilize the resources for the one year for round the clock. The Contractor shall supply and maintain, at their own cost, all tools, tackles, equipment, and materials required for the execution of the work. This includes, but is not limited to, the following:

- **Chain Pulley Blocks:** The Contractor shall provide Chain Pulley Blocks of varying capacities (5 Ton, 3 Ton, 2 Ton, 1 Ton, and 0.5 Ton). The number and capacity of the chain pulley blocks required will be determined by the nature of the job. For example, if 20 chain pulley blocks are needed to perform different tasks simultaneously, the Contractor shall arrange them at their own cost.
- **Welding Equipment:** 3.15mm & 4mm MS welding Electrodes, Welding machines including switch-fuse units and ELCBs, power supply cables, welding cables, and associated accessories.
- **Gas Cutting Equipment:** The Contractor shall provide a Gas Cutting Set, which must include hose pipes (Approx. length- 25m), DA and Oxygen gas cylinders, cutogen, nozzles, flashback arrestors (for both cylinders and cutting torch), and double-stage regulators (for both cylinders). The Contractor shall maintain minimum three (3) cutting sets and 9 welding machines at all times for execution of above mentioned jobs.

These cutting sets and welding machines may be relocated within different areas of the FAD building as needed to meet job requirements; however, the Contractor must ensure that the minimum requirements are always maintained.

- **Plasma Cutting Equipment:** The Contractor shall have to keep a plasma cutting machine set for working on Stainless Steel material.
- **PPEs, handtools and other consumables:** The Contractor shall provide good quality PPEs, hand tools & tackles and all other material, accessories and consumables to each of his workmen engaged at CFP under this contract, including but not limited to the following, without fail:

The contractor shall ensure that the following personal protective equipment (PPE) is provided to all his workers. Non-compliance shall attract penalties as per prevailing safety norms.

Name / Description of PPE	Qty (for each workman)
Safety Hat	: 1 no. per year
Safety shoes (steel toe)	: 2 pairs per year
Heat resistant hand gloves	: 2 pairs per month
Work gloves (cotton/polyester with inner lining)	: 2 pairs per month
Dust Mask	: 1 no. per week
Face shields with screen (for welder / cutter)	: 1 no. per year

Full-body harness	:	4 Nos (common for all)
High visibility jackets	:	2 nos per year
Safety Goggle	:	4 nos per year
Ear Plug	:	6 nos per year
Raincoat	:	1 no. in every 2 years
Umbrella	:	1 no. in every 2 years
Flame retardant clothing	:	1 pair of shirt / jacket and trousers every year

· Hand Tools, accessories and other miscellaneous tools and tackles:-

The contractor shall supply and maintain all required hand tools, accessories, and miscellaneous tools and tackles necessary for execution and maintenance works. This shall include, but not be limited to, fixed/ring/box/T-spanners, pipe wrenches of various sizes, Allen key sets, screwdrivers, hammers, punches, pliers, hacksaw frames with blades, portable grinders and cutters with grinding and cutting wheels, tap sets and wrenches, rechargeable torch, sling ropes, manila ropes, and rigging ropes. Consumables and bonding/sealing materials such as M-Seal, steel putty, Araldite, Anabond, WD-40, Rustolene and similar items shall be made available in sufficient quantities by the contractor at his own cost.

The contractor shall maintain adequate stock of the following O-rings:

60mm(ID) x 70mm(OD) x 5mm(Dia)-1000 Nos

58mm(OD) x 46mm(ID) x 6mm(Dia)-400 Nos

- Any other material/machine that is required for maintenance jobs as mentioned in contract but not included here will be arranged by the contractor at his own cost.

11. The indicative number of resources to be deployed in all four shifts (A, B, C & G) is about 38 per day for the jobs mentioned at Sr. No.-1. This shall include contractor's supervisor, skilled and semiskilled manpower as per requirement. However the contractor should be able to mobilize adequate no. of resources for multiple jobs simultaneously without affecting regular maintenance work and may have to re-appropriate the allocation of resources as per requirement. Job mentioned at Sr. No.-2 (Fabrication of electrode casing & electrode building) will be carried out by the contractor as per requirement basis i.e. based on the consumptions of SAFs electrodes.
12. The contractor will have to ensure availability of each SAF i.e. SAF-I, SAF-II & SAF-III to 96% on account of Mech. Maint.
13. The contractor shall inspect the site to acquaint himself with the actual working & other prevalent conditions before submitting his quotation. He would be deemed to have full information about the site conditions including statutory provisions and safety requirement applicable.
14. The quantity mentioned in the scope of work/ price schedule is tentative quantity. It may increase or decrease as per requirement of the work to be carried out.
15. Contractor shall carry out the work round the clock including Sundays and holidays.
16. The contractor shall shift/transport the materials required for the job and issued by CFP from stores or other specified location. He shall use proper vehicles/ equipments for the same.
17. The Contractor shall remove dismantled materials, left over materials promptly to maintain good housekeeping and safe working condition. Removed sections, scrap, etc shall be stacked at scrap yard/ specified area within 2 Km area.
18. The contractor shall bring his tools and tackles etc on returnable basis with letter in triplicate (Security gate copy, Mech Maint deptt copy and contractor's copy) with duly inward at security gate. These materials shall be taken out after completion of work with the permission of Mech Maint deptt on the same letter. Security & storage of contractor's tools, tackles and materials will be his responsibility.
19. The contractor shall not sub-let the job to other sub-contractors.
20. Any equipment, fittings, fabrication or erection work which might have not been mentioned in the scope of work/ specification/ work order or drawing but are usual or necessary for the completeness of work

k, shall be carried out by the contractor without any extra charges and work must be complete in all respect.

21. The contractor shall arrange transportation/ conveyance, accommodation, food, medical facilities, etc for his workmen at his cost.
22. The contractor shall take line clearance daily/as per requirement before start of work in prescribed format.
23. The contractor shall not damage the property or other equipments of CFP. He shall not disturb the normal working of workshop, furnaces and other areas.
24. The contractor shall ensure that safety training is given to his all workers by CFP Safety Deptt & executing deptt before start of work. The contractor shall arrange for Height Pass for the workers working at height after submitting medical certificate of registered doctor and necessary safety training.
25. The contractor shall provide PPEs to his workers at his own cost. The contractor shall carryout the work with proper safety precautions, use of proper PPEs, after taking clearance, if required. Some of these are mentioned below:
 - Ensure safety training and safety needs related to job to all the workers and supervisors.
 - Ensure use of Personal Protective Equipments (PPEs).
 - Ensure that all the equipments safety devices provided are working properly.
 - Ensure that persons working in the area where furnace (CO) gas may be available shall check availability of CO gas with the help of portable CO gas monitor and keep the monitor with them till they are working in the area. In case of availability of CO gas they shall immediately leave such place and go to the area where fresh air is available and inform the availability of CO gas to concern/control room of CFP.
 - Ensure proper safety precautions for CO gas area. While working in SAF building smoking or lighting fire or taking rest, etc are not allowed.
 - Ensure all safety precautions considering that furnace is in operation and electric power is in electrodes.
 - Ensure Electrical safety, use of ELCB for welding machines, proper line clearance, as required, etc.
 - If any worker of contractor is found working without proper PPE, penalty will be imposed on contractor as per CFP safety norms.
26. The contractor shall issue identity cards to his workers. Contractor shall also bring medical fitness certificate of registered doctor for the same. The Identity card shall be checked at security gate.
27. The Contractor shall ensure that the work awarded to him under the work order is executed/ carried out to the full satisfaction of the Company. Failure on the part of the Contractor to perform his obligations, the contract may be terminated by CFP without any compensation whatsoever. In such an event, the Company/CFP also reserves the right to get the work completed through any other party at the risk and cost of the Contractor.
28. In case any contractor or his workmen is caught in theft or indulges in any unauthorized movement of materials or deliver the material to wrong person or indulges in any activities which is punishable under the law or does something which is not authorized by CFP, the contractor will be held responsible for the same and contractor will make good such losses forthwith or the losses will be recovered from him. The company reserves the right to terminate the contract besides claiming damages from the contractor.
29. In case contractor leaves the job incomplete or does not complete the job as per schedule or there is delay in the completion of the job, the balance work shall be executed by the other contractor or departmentally as decided by CFP. The expenditure incurred towards the same will be deducted from contractor's bill. If the work carried out is not found satisfactory, the work will be rejected and contractor shall re-execute the work or remove/repair the defects noticed during the work execution or testing, trials, etc promptly at his cost
30. The statutory obligations towards the manpower engaged by the contractor shall be the sole responsibility of the contractor.

31. Non compliance of above mentioned conditions will attract penalty as decided by Contract Operating / Executing Authority.

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GENERAL TERMS AND CONDITIONS:

1. LIQUIDATED DAMAGES (LD) : As per SAIL-S1

2. SECURITY DEPOSIT (SD):

A. The successful tenderer shall submit interest free security deposit of **Three (3) % of contract value** within 15 days from the date of WO in form of :

- a. **Bank Guarantee** from any Scheduled Commercial Bank **except Co-operative and Gramin Bank** in the specified format, the validity period of which shall be **Twenty Seven (27) months** from the date of its issue as per the proforma of CFP (**FORM-V**) prior to commencing of the contract. The claim period of the bank guarantees should be 1 year over and above the validity period. or
- b. **Demand Draft** or
- c. **Banker's Cheque** or
- d. **Fixed Deposit Receipt (FDR) in the name of SAIL - Chandrapur Ferro Alloy Plant**
- e. **Online transfer.**

B. Security Deposit **shall NOT be accepted in cash.**

- C. No claim on account of any expenses by whatsoever nature incurred by the contractor for obtaining extension of Bank Guarantee will be entertained. In case of any breach of the contractual terms & conditions, the Security Deposit will be forfeited without notice or encashed the Bank Guarantee.
- D. No interest shall be paid on Security Deposit. The security deposit **without interest** will be refunded or Bank Guarantee will be released to the contractor after expiry of performance guarantee period subject to the condition that no recovery / demand is pending against the contractor. For this purpose, the contractor will produce a "**No Dues Certificate**" from the **concerned deptt.** to the effect that no amount is outstanding for recovery from him.
- E. **Bank Account Details for depositing SD Online i.e. through RTGS/NEFT:**

1	Name of Organisation	Steel Authority of India Limited, Chandrapur Ferro Alloy Plant, Chandrapur - 442 401 (MS)
2	Bank Name	State Bank of India
3	Branch	Main Branch, Chandrapur (Maharashtra)
4	Account No.	11014646617
5	Branch Code	00346
6	IFSC Code	SBIN0000346

F. **Guidelines for submission of BG in lieu of SD:**

- a. The non-judicial stamp (NJS) paper should be purchased in the name of the Bank issuing the BG; date of purchase of NJS paper should not be prior to the date of issue of the contract.
 - b. For ease in operability, the Issuing Bank must have a functional branch at a location where office of any plant / unit of SAIL is situated. Correspondence by SAIL plant / unit for extension, encashment or release of BG should be admissible by the concerned local branch of the Issuing Bank.
 - c. Name and Address of the Issuing Bank Branch with clear details and Seal of the Bank should be provided in the BG Official e-mail ID, Contact No. (Landline & Mobile), Name, Designation, Postal Address of the Bank Official authorized by the Issuing Bank must be provided in the BG for obtaining confirmation(s) on BG
 - d. In case the contractor delays submission of Security Deposit, a penalty of 0.2% of the original SD amount per completed day of delay, limited to an amount not exceeding 5% of the original SD amount shall be applicable.
3. **PAYMENT TERMS:** Contractor shall raise the bill on monthly basis. Payment shall be released within 30 days from the date of submission of bill to the concerned authority. Payment shall be made online via NEFT/ RTGS for which contractor bank details may be submitted. Income tax shall be deducted as per the prevailing rate under the Income-Tax Act/Rule from Contractor's bill. Contractor shall raise final bill after the satisfactory completion of work in all respect and balance payment if any shall be paid in 30 days from the date of submission of bills complete in all respect, at **concerned deptt.**
4. **Tax Deduction at Source (T.D.S.)** and surcharge thereof as per the prevailing rate under the Income Tax Act/ Rules in force during the contractual period shall be deducted from the Contractors bill. Necessary T.D.S. certificate will be issued to Contractor at the end of each quarter.
5. SAIL-CFP will in no way be responsible for any additional charges, accident, infringement of rules, and laws etc. or any other such act of the Contractor / their equipment / employees, SAIL-CFP will be fully indemnified against any claims.
6. NO GUARANTEE is given for the definite volume of work which may be entrusted to the Contractor to at any time or through the period of contract.
7. In case of temporary disablement / permanent disablement / death resulting due to accidents to

any labour, the contractor will be solely responsible for payment of compensation amount including medical expenses as per the provisions of workmen compensation Act 1923 / Rules made there under.

8. The Contractor will be held responsible for any damage caused by contractor's staff / equipment etc., employed by the contractor to any employee / property of the CFP or the employees in this regard as assessed by the SAIL-CFP will be final and binding on the contractor and contractor will arrange to pay the same forthwith or otherwise will be recovered from their bills / security deposit.
9. In case, any employee of the Contractor is caught in theft case or indulges in any unauthorized movement of materials or delivered the materials to wrong person or indulges in any activities which is punishable under the law or does something which is not authorized by CFP, the contractor shall be held responsible for the same and the Contractor shall make good such losses forthwith. CFP reserves the right to terminate the contract in such case besides claiming damages from the Contractor.
10. The Contractor will ensure that the work awarded to them under the contract is executed / carried out to the full satisfaction of the CFP. Failure on their part to perform obligation under the contract to the satisfaction of the CFP will entail termination of the contract without any compensation whatsoever. In such event, the CFP also reserve rights to get work executed through any other agency at the risk and cost of the defaulting Contractor.
11. The submission of any dispute or disagreement to the arbitration shall not, in any way, affect or limit CFP's right to file and prosecute under the applicable law for any and /or all sums that CFP claims to be due and owing under this contract.
12. The Contractor will not assign or sublet the whole or part of the work except, where if so provided in the contract, and even then only with prior written consent of CFP and such consent, if given shall not relieve the Contractor from any liability or obligation under the contract and he will be responsible for the acts, defaults neglect, misbehavior of his sub-contractors, agents, servants, workman as if they were the acts, defaults or neglect of the contractor, his agents, servants or workmen and in that event the company will terminate the contract without any notice and the contractor will not be entitled for any compensation whatsoever.
13. In case of insolvency of the Contractor or sudden demise of the contractor, CFP shall have the right to terminate the contract immediately.
14. "Any increase in taxes/ duties or imposition of new taxes/ duties as made applicable by Central/ State Govt. or Local Authorities during the contractual period shall be considered and paid extra subject to submission of documentary evidence by contractor."

If any delay in execution of the contract is attributable to SAIL / Force majeure, Any increase in taxes/ duties on account of statutory increase, fresh imposition of any duty or taxes which takes place during such extended period shall be admissible / availed.

If the delay in execution of contract is attributed to the Contractor, Increase / fresh imposition of taxes and duties during the extended period will be to the account of the contractor. However, the same will be admissible to the extent for which CENVAT or setoff is admissible against these levies. Any decrease in taxes and duties during the extended period will be availed of.

15. Contractor will have to arrange timely payment to his resources as per provision of statutory rules and Minimum wages act and CFP in no way will be responsible for paying any amount / compensation on any account whatsoever to their resources / labours.
16. **PAYMENT OF WAGES & INSURANCE** Contractor will abide by the provisions of the factory Act, 1948, Maharashtra Factories Rule, 1963, Worker's compensation act, payment of wages act, contract labour (Abolition & Regulation) Act, employees provident fund and Misc. Provision Act 1952 & all other rules & regulation as applicable from time to time. Contractor will make payment to his workers for their wages etc. and SAIL-CFP will not be responsible to make them any payment, the payment of wages is Contractor's sole responsibility. The insurance of his workers materials and equipment etc. will be arranged by Contractor at his cost.
17. **TERMINATION:** If the services found unsatisfactory, the contract / work order will be terminated

by giving 3 days' notice or in case of breach of any contractual terms and conditions, the same will be terminated forthwith without assigning any reason whatsoever without any damage compensation thereof.

18. **RISK & COST:** To make good, the failure neglect or contravention hereunder will be governed by provisions of respective conditions of the work order. Should the contractor fail to comply with such notice within the stipulated time from the date of service thereof, in the case of failure, neglect or contravention or incapable of being made good within that time or otherwise within such time as may be specified by CFP for the same making good, then and in such case without prejudice to CFP's right under above hereto, CFP will have the option and be at liberty to take the work wholly or in part out of the contractor's hand and shall complete the work envisaged in the contract either departmentally or may assign fresh contract at a minimum possible price to execute the same or any part thereof and provide other materials, tools, tackles or labour for the purpose of completing the work or any part thereof at the sole risk & cost of the Contractor. CFP will be entitled to recover from the contractor the cost thereof or may deduct the same from any money due or that may become due to the Contractor.
19. **DAMAGE TO PROPERTY:** Contractor will be liable to compensate for all losses and or damages to the property of CFP caused by and arising out of either directly or indirectly by negligence or otherwise by their employees. In such cases Contractor has to promptly reimburse the amount for the same to CFP. CFP shall not be liable for any loss or damage to Contractor's property or their employees.
20. **INDEMNITY:** That the Contractor shall be responsible to indemnify CFP in case of any award made by the Authority under the Workmen's compensation Act for any death or injury caused to the Contractor's employee or agent and he shall also pay all the sum that may be awarded in respect or claims for compensation Act (Act VIII of 1923 and XV of 1933) or and modification or amendment made thereof. The contractor shall also be responsible to make good all costs incurred in connection there with together with any such claims. CFP reserves the right to set apart the amount of compensation from the running bill of the Contractor.
21. If the tenderer has a relative employed in any capacity in SAIL-CFP, he shall inform the authority calling for tenders of the fact when submitting his tender, failing which his contract may be rescinded if the fact subsequently comes to light and he shall be liable to make good to the SAIL-CFP any loss or damage resulting from such cancellation to the like extent provided in the case of cancellation as per the policy of Company.
22. Contractors convicted for any criminal offence involving moral turpitude, economic offences (other than freedom struggle) would not be eligible for allotment of contract. At the time of submission of tenders, the tenderer would be required to submit an undertaking to this effect. However, if the Contractor is awarded a contract, due to suppression of factual information, CFP shall have the right to terminate the contract and forfeit EMD / Security Deposit.
23. **PROCEDURE FOR CLOSURE OF CONTRACT:** For all the contracts valuing above Rs.5 Lakhs, Contractor has to fulfill the formalities as per CFP's requirement. Contractor has to submit an undertaking on Non-judicial stamp paper that they will not have any further claim on fulfilling the formalities. After contract is closed in all respect (after obtaining necessary approval by the executing agency of the contract) the Contractor will get back Security Deposit as per terms of the contract.
24. **BANNING OF BUSINESS DEALING:** If it is found during tendering/validity of contract, the tenderer/ bidder/ contractor or his agent/ servant and any other person claiming interest under him, indulges in any malpractice/ activity prejudicial to the interest of the Company/ detrimental to the interest of the Company, equipment & property, the tender/ contract may be terminated at once and a ban on business dealings shall be imposed for a specific period under the laid down procedure of the Company.
25. If it is found during the validity of the contract, the contractor or his agent/ servant and any other person claiming interest under him, indulges in any malpractice / activity prejudicial to the interest of CFP/ detrimental to the interest of CFP, equipment & property, the contract may be terminated at once and a ban on business dealings shall be imposed for a specific period under the laid down procedure of CFP.

26. CONCILIATION :

a. For Contract upto Rs.5 Lakhs

“Any dispute or difference whatsoever arising between the parties relating to or arising out of contract, shall amicably settled by conciliation between the parties and the settlement so reached between the parties shall be final and binding on the parties. In case of failure of the conciliation, the decision of the Executive Director / Chief executive of SAIL-CFP shall be final and binding on the parties”.

b. For Contract above Rs.5 Lakhs

“Any dispute or difference whatsoever arising between the parties relating to or arising out of contract, shall be settled first by conciliation between the parties and the settlement so reached between the parties shall be final and binding on the parties”

c. “Reference to arbitration can be made only when the conciliation has failed”.

27. **ARBITRATION CLAUSE:** This Arbitration clause is applicable only for contract above Rs.5 lakhs.

“Any dispute or difference whatsoever arising between the parties and of or relating to the construction, interpretation, application, meaning, scope, operation or effect of this contract or the breach thereof, shall be referred for arbitration by a sole Arbitrator, who shall be nominated by the Executive Director/Chief Executive of SAIL-CFP shall be the Sole Judge to decide the dispute or differences and his award shall be final and binding on the parties. The venue of arbitration is at CHANDRAPUR”.

28. **JURISDICTION:** Dispute, if any arising out of this contract shall be limited to the jurisdiction of Civil Court, Chandrapur – Maharashtra only.

29. All other terms & conditions shall be as per SAIL-S1 available on www.sailtenders.co.in

Annexure - LC

1. Payment of Wages: The contractor shall pay the wages applicable in the state of Maharashtra to the workmen engaged.
2. Compliance to PF & MP Act: The contractor should be registered with PF Authority (irrespective of the no. of employees in his establishment) and submit compliance of PF paid for the contract labours engaged by the contractor under this contract.
3. ESI Enrolment : The contractor shall have his location specific ESI Code and all the personnel engaged by the contractor shall be enrolled under ESI from the date of start of the contract, irrespective of the number of workers engaged by the contractor.
4. Payment of Bonus: The contractor shall pay bonus as per payment of Bonus act to the workmen engaged by the contractor. The bonus shall be paid monthly by the contractor @8.33% of wages or higher as notified by the government from time to time. The monthly RA bills shall not be processed in case of noncompliance to this clause.
5. Online entry Gate pass: The contractor shall enroll 100% of his workmen in CFP’s online entry gate pass system before the start of the contract. It is mandatory to Provide UAN no. and ESI IP no. of the workers for enrollment in the online Gate Pass System.

6. Bank Payment and Pay slips: The contractor shall make payment of wages to his workers as per the Payment of Wages Act. Payment shall be done through scheduled / nationalized bank only. Monthly payslips shall be issued to the workers engaged by the contractor. The payslip shall contain details of wages like wage rate, allowances, bonus, etc & deductions like PF, ESI, etc. The wages register / sheet submitted should bear the signature of the respective workers engaged, the contractor and the Contract Executing Authority.
7. Additional Welfare Amenity (AWA): The contractor shall pay additional welfare amenity @ Rs. 107.69 per day limited to Rs. 2800/- per month to the workmen engaged under this contract.
8. Payment of extra wages for overtime: Due to exigencies of work, if any manpower / workman are engaged by the contractor beyond the regular shift timings, shall be paid extra wages as per applicable rules. The extra wages on such account shall be borne by the contractor.
9. The contractor shall enroll his workmen in biometric attendance system and arrange necessary infrastructure for the same, if required.
10. Wages for National Holidays, Elections, etc: The contractor shall pay extra wages over and above regular wages if any of his workmen are required to work on national holidays, general / assembly / municipal elections, Labour Day, or any other holiday declared by the local / state / central government or citizens / industrial workers, etc.
11. **Penalty for Delay in Deposit of Wages, PF, ESI & Bonus:** For each wage month, the contractor shall make payment of wages to all workmen on or before the 7th day of the following month. The contractor shall also deposit the required PF and ESI contributions with the respective authorities on or before the 15th day of the due month. Based on these statutory compliances, the contractor must submit the monthly bill to the Contract Operating Authority by the 20th day of the succeeding month, along with documentary proof of all such compliances. Failure to comply with any part of this clause shall attract a penalty of up to **10% of the monthly bill value**, as deemed appropriate by the Contract Operating / Executing Authority.
12. Any increase in Additional welfare Amenity (AWA) done on the instructions of CFP, shall be reimbursed to the contractor based on actual payment and certification of the contract operating / executing authority.
13. PRICE VARIATION CLAUSE FOR SERVICE / MANPOWER CONTRACTS

The price(s) / Rate(s) quoted in the schedule of work shall be firm and not be subject to any variations except wherever specified. Variations on account of change in wage(s) per day of contract labour by Statutory Authorities shall be calculated for item Line item No.-1 (Mechanical Maintenance of EAF, SAF-I, II, III and its equipment's) as per the following formula:

$$VR = \{[R-(B1+WA1) \times [1 + (W2-W1)/W1]] + (B2+WA2)\}$$

Where, VR = Varied new award Rate(s) / Unit

R = Original award Rate(s) / Unit *

W2 = Revised Notified minimum wage

W1 = Reference minimum wage as on 31.12.2025 (Ref. Annexure B)

B1 = Bonus on W1

B2 = Bonus on W2

WA1 = Additional welfare amenity @ Rs. 107.69 per day, capped at Rs. 2800/- per month

WA2 = Revised Additional welfare amenity as notified by CFP

The reimbursement/adjustment on account of the revision of wages, based on the varied new award rate calculated from the above formula, shall be claimed on monthly basis, as below

$$\text{Reimbursement / Adjustment (C)} = (VR - R) \times M$$

Where,

VR = Varied new award rate

R = Original Award rate (1) Rs. 906.88 per manday, for skilled category & (2) Rs. 848.52 per manday for semiskilled category

M= Total No. of mandays engaged during the month

*Comprising of Minimum Wage(s) + Benefits [Which includes PF@12% + PF Service & Administrative charge @ 1% + ESI @ 3.25% + Provision of bonus @ 8.33%]+ Provision for Safety + Provision for additional welfare am

nity

Note:-

- a) Whenever any changes made by statutory authorities, the contractor shall be duly intimated by CFP. The contractor shall implement the same as per advice and seek reimbursement / revision of Rate(s) which shall be considered as per rules.

The wage Rate(s) for the purpose of escalation shall be as per the circulars issued by CFP consequent to receipt of directives from time to time appropriate government. Depending on the change in wage(s) by statutory authorities, the change in the award rate(s) shall be made from the same effective date / reimbursed, as applicable, throughout the contract period. The subsequent revision of award rate(s) after the first increase shall be calculated based on the same indicated above, but the previous revised rate given into effect be deducted and net variation shall be given.

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LIST OF CRITICAL MECHANICAL EQUIPMENTS

A) Charging system from Bunker House to SAF-I, SAF-II & SAF-III

- i) Weighing system of SAF-I
- ii) Weighing system of SAF-II
- iii) Weighing system of SAF-III
- iv) Transport system of SAF-I
- v) Transport system of SAF-II
- vi) Transport system of SAF-III

B) EOT Cranes

- i) 7.5T MT Batliboi Crane
- ii) 7.5T MT Fafeco Crane
- iii) 5T Paste charging crane for SAF-I & II
- iv) 60/10T unique make crane
- v) 5T crane for SAF-III
- vi) Grad bucket crane for SAF-III

C) Gas Cleaning Plants

- i) GCP No.1 of SAF-I
- ii) GCP No.2 of SAF-I

- iii) GCP No. 1 of SAF-II
- iv) GCP No. 2 of SAF-II
- v) GCP No. 1 of SAF-III
- vi) GCP No. 2 of SAF-III

D) Mudguns & Drilling Machines

- i) Pneumatic Mudgun of SAF-I
- ii) Pneumatic Mudgun of SAF-II
- iii) Hydraulic Mudguns of SAF-III
- iv) Hydraulic Drilling Machines of SAF-III

E) Water Cooling Systems

- i) Water cooling system of SAF-I
- ii) Water cooling system of SAF-II
- iii) Water cooling system of SAF-II

F) Electrode Holder Assembly

- i) Electrode Holder Assembly of SAF-I
- ii) Electrode Holder Assembly of SAF-II
- iii) Electrode Holder Assembly of SAF-III

G) Bins & Bin Pipes

- i) Bins & Bin Pipes of SAF-I
- ii) Bins & Bin Pipes of SAF-II
- iii) Bins & Bin Pipes of SAF-II

H) Associated Equipments at EAF

- i) Tilting arrangement
- ii) Electrode Holder
- iii) Water Cooling system

CHECKLIST FOR PLANNED PREVENTIVE MAINTENANCE

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Equipment	Checkpoints	Frequency
Weighing System of SAF's.	Check condition of scale pans, feeder pans & scale hoppers- Repair/ replace if damaged. Check condition of rubber liners in scale hoppers, replace if required. Check & adjust slope of pans, replace damaged tie rods, foundation bolts & bushes of scale & feeder pans.	Weekly
Transport System of SAF's.	Check condition of skirt boards & discharge chutes & repair/ replace if observed damaged. Check belt rollers for free rotation. Replace the damaged ones. Check gearboxes, bearing pedestals, couplings & repair/replace as required. Check condition of conveyor belts and belt joints, Repair / replace, if damaged. Check condition of shuttle trolley wheels, chains & sprockets - replace, if damaged. Check condition of	Weekly

	drums & structural foundation of drums & gear boxes. Repair/ replace, if required	Weekly
EOT Cranes	Check condition of wheels & wheel flanges of CT & LT operation & set right. Check & tight all foundation & coupling bolts, replace the damaged ones. Check brake liner condition and replace, if observe damaged. Check condition of gear boxes, drum pedestals, pulley geared coupling, wire ropes & replace, if damaged. Check condition of structural foundations of gear boxes. Repair / replace, if damaged.	Daily
Gas Cleaning Plant	Grease bearing pedestals. Check & tight bolts of blower foundation, bearing housing if found loose. Check & clear water flow through nozzles if reqd. Check condition of V- belts & replace, if damaged.	
Mudgun & Drill machines of SAF's	Note : Checks on GCP are applicable only to the GCP running on scheduled date of checking. Check & top up oil level of air motor. Grease pedestal bearings. Check air circuit and air valves to arrest air leakages. Check condition & alignment of sprockets, bevel gears and chain and set right. Check charge-fire & in-out operation for seal leakages & replace seals if reqd. Check condition of radial wheels & pedestals for free operation. Inspect main hose chain, supports & links for free movement and clean in case of obstruction/dust accumulation. Check radial movement troley wheels for smooth operation. Check in/out operation & lubricate the pins. Check hydraulic hoses for leakages & replace if required. Check structural members for any deformity & carry out repairs as required	Weekly
Water cooling system of SAF's		Monthly
Electrode holder assembly of SAF's.	Check all cooling system, hoses, cooling pipelines & roof cover sections for leakages. Replace the damaged hoses, pipelines and attend leakages of cooling system.	Weekly
Bins & bin pipes of SAF's	Check slipping & hoist cylinders for leakages, replace the leaking ones. Arrest hydraulic oil leakages through hydraulic pipelines / hoses, if any. Check seal rope condition of electrodes & replace if damaged. Check & tight seal ring bolts.	Weekly
Associated equipments of EAF	Check the condition of bins & bin pipes for leakages & carryout repair/ replacement work on damaged ones.	Weekly
	Check the condition of tilting limit / stroke & adjust, if required. Check power pack operation & hydraulic cylinder for seal leakages. Replace, if damaged.	
	Check electrode seal position for uniform gap and adjust if required.	

Check cooling water hoses & water cooled bus tube for leakages. Check for sufficient water flow from outlet pipeline. Attend leakages, if any.
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REGULAR SHIFT CHECKLIST

SCHEDULE - EVERY SHIFT

NATURE OF CHECKS - VISUAL

CHECK POINTS (as per list of critical Mechanical equipments)

A) CHARGING SYSTEM FROM BUNKER HOUSES TO SAF-I, SAF-II & SAF-III:

1. Gear boxes
2. Couplings
3. Gravity take-up
4. Condition of belts
5. Carrying, return, impact & self aligning idlers
6. Discharge chutes
7. Chain sprockets
8. Condition of scale pans, feeder pans, tie rods & foundation

Bolts of pans

B) EOT CRANES (as per list)

1. Foundation bolts of gear boxes
2. Coupling bolts
3. Condition of wire rope
4. Brakes
5. Bearing pedestals

C) GAS CLEANING PLANTS AT SAF-I, SAF-II & SAF-III

1. Foundation bolts of bearing blocks, side rails and pedestals
2. Condition of V- belts (for SAF-I & II)
3. Greasing
4. Impeller noise, vibration in bearing blocks and pedestals
5. Water flow through nozzles

D) MUDGUNS OF SAF-I, II & III:

- a) Pneumatic Mud Guns of SAF-I & II:
 - 1. Panel, valves , hoses
 - 2. Rail, Wheels, bevel gears
 - b) Hydraulic Mud Gun of SAF-III:
 - 1. Hydraulic Line Leakages.
 - 2. In- Out and Radial movements.
- E) WATER COOLING SYSTEM OF SAF-I, II & III:**
- 1. Normal water flow at individual outlets of SAF header pipes
 - 2. Leakages, if any during checking of furnace roof.

F) ELECTRODE HOLDER ASSEMBLY OF SAF-I, II & III:

- 1. Slipping device air leakages
- 2. Hydraulic system leakages
- 3. Electrode seal rope

G) BINS & BIN PIPES OF SAF-I, II & III:

- 1. Leakages

H) MAINTENANCE OF ASSOCIATED EQUIPMENTS OF EAF:

- 1. Tilting arrangement - lifting limit & operating condition of power pack
- 2. Electrode holder -electrode seal position
- 3. Water Cooling system - condition of hoses, leakages

3. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

अस्वीकरण/Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

- 1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
- 2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
- 3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
- 4. Creating BoQ bid for single item.
- 5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
- 6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
- 7. Floating / creation of work contracts as Custom Bids in Services.
- 8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
- 9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
- 10. Seeking experience from specific organization / department / institute only or from foreign / export

experience.

11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Any ATC clause in contravention with GeM GTC Clause 4 (xiii)(h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
16. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
17. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the [सामान्य नियम और शर्तें/General Terms and Conditions](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in सामान्य नियम और शर्तें/General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---